

10/718,190

GAU 3747

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1. (previously presented) Apparatus comprising:  
an internal combustion engine having a fueling system  
for fueling the engine;

one or more sources providing data relevant to  
operations of one or more systems of the apparatus that are  
external to the engine but potentially influential on  
fueling of the engine; and

an engine control system comprising a processor for  
processing data according to an all-speed governing  
strategy for controlling the fueling system to develop all-  
speed governed fueling data that sets engine fueling when a  
data input to the engine control system from the one or  
more sources discloses no need to influence engine fueling,  
but when the data input from such one or more sources  
discloses a need to influence engine fueling, that data  
input causes engine fueling to be set by a strategy other  
than the all-speed governing strategy.

2. (previously presented) Apparatus as set forth in  
Claim 1 wherein the apparatus comprises a wheeled land  
vehicle that is propelled by the engine, and the one or  
more sources provide data relevant to operations of one or  
more systems that act on wheels of the land vehicle.

10/718,190

GAU 3747

3. (previously presented) Apparatus as set forth in Claim 2 wherein the one or more sources provide data relevant to operations of one or more of: an ABS system; a traction control system; and a transmission through which the engine drives driven ones of the wheels of the vehicle.

4. (original) Apparatus as set forth in Claim 1 wherein the control system comprises functions for placing the other strategy in an enabled state when the data values for one set of inputs indicate the existence of conditions appropriate for the other strategy to influence engine fueling and for placing the other strategy in an unenabled state when the data values for another set of inputs indicate the existence of conditions inappropriate for the other strategy to influence engine fueling.

5. (original) Apparatus as set forth in Claim 4 wherein the one set of inputs includes engine speed.

6. (original) Apparatus as set forth in Claim 4 wherein the one set of inputs includes engine torque requested from one of the one or more sources and torque requested by the all-speed governing strategy.

7. (original) Apparatus as set forth in Claim 6 wherein the one set of inputs includes engine speed.

8. (original) Apparatus as set forth in Claim 4 wherein the other set of inputs includes engine speed and engine low idle speed, engine torque requested from one of the one or more sources, and torque requested by the all-speed-governing strategy.

10/718,190

GAU 3747

9. (original) Apparatus as set forth in Claim 4 wherein the other strategy includes a momentary overspeed control portion that, when the other strategy is enabled, is effective to allow engine speed to exceed high idle speed for a limited time.

10. (original) Apparatus as set forth in Claim 9 wherein inputs to the momentary overspeed control portion include engine speed, engine high idle speed, a maximum speed limit, and a maximum time limit.

11. (original) Apparatus as set forth in Claim 1 wherein with the strategy other than the all-speed governing strategy influencing engine fueling, that other strategy functions to detect incipient engine stalling and change engine fueling to avoid actual stalling.

12. (original) Apparatus as set forth in Claim 1 wherein the strategy other than the all-speed governing strategy influencing engine fueling comprises a torque speed control strategy influencing engine fueling to influence engine torque.

13. (original) Apparatus as set forth in Claim 12 wherein the torque speed control strategy influencing engine fueling to influence engine torque comprises influencing engine fueling to create desired engine torque.

14. (original) Apparatus as set forth in Claim 12 wherein the torque speed control strategy influencing engine fueling to influence engine torque comprises

10/718,190

GAU 3747

influencing engine fueling to impose a limit on engine torque.

15. (original) Apparatus as set forth in Claim 1 wherein the data from the one or more sources comprises messages that include data indicative of message priority, and the processor processes the priority data in the messages according to an algorithm that prioritizes the messages.

16. (previously presented) An engine control system for apparatus that includes an internal combustion engine having a fueling system for fueling the engine and one or more sources providing data relevant to operations of one or more systems of the apparatus that are external to the engine but potentially influential on fueling of the engine, the engine control system comprising:

a processor for processing data according to an all-speed governing strategy for controlling the fueling system to develop all-speed governed fueling data that sets engine fueling when a data input to the engine control system from the one or more sources discloses no need to influence engine fueling, but when the data input from such one or more sources discloses a need to influence engine fueling, that data input causes engine fueling to be set by a strategy other than the all-speed governing strategy.

17. (original) An engine control system as set forth in Claim 16 comprising functions for placing the other strategy in an enabled state when the data values for one set of inputs indicate the existence of conditions appropriate for the other strategy to influence engine

10/718,190

GAU 3747

fueling and for placing the other strategy in an unenabled state when the data values for another set of inputs indicate the existence of conditions inappropriate for the other strategy to influence engine fueling.

18. (original) An engine control system as set forth in Claim 17 wherein the one set of inputs includes engine speed.

19. (original) An engine control system as set forth in Claim 17 wherein the one set of inputs includes engine torque requested from one of the one or more sources and torque requested by the all-speed governing strategy.

20. (original) An engine control system as set forth in Claim 19 wherein the one set of inputs includes engine speed.

21. (original) An engine control system as set forth in Claim 17 wherein the other set of inputs includes engine speed and engine low idle speed, engine torque requested from one of the one or more sources, and torque requested by the all-speed-governing strategy.

22. (original) An engine control system as set forth in Claim 17 wherein the other strategy includes a momentary overspeed control portion that, when the other strategy is enabled, is effective to allow engine speed to exceed high idle speed for a limited time.

23. (original) An engine control system as set forth in Claim 22 wherein inputs to the momentary overspeed

10/718,190

GAU 3747

control portion include engine speed, engine high idle speed, a maximum speed limit, and a maximum time limit.

24. (original) An engine control system as set forth in Claim 16 wherein with the strategy other than the all-speed governing strategy influencing engine fueling, that other strategy functions to detect incipient engine stalling and change engine fueling to avoid actual stalling.

25. (previously presented) An engine control system as set forth in Claim 16 wherein the strategy other than the all-speed governing strategy influencing engine fueling comprises a torque speed control strategy influencing engine fueling to influence engine torque.

26. (original) An engine control system as set forth in Claim 25 wherein the torque speed control strategy influencing engine fueling to influence engine torque comprises influencing engine fueling to create desired engine torque.

27. (original) An engine control system as set forth in Claim 25 wherein the torque speed control strategy influencing engine fueling to influence engine torque comprises influencing engine fueling to impose a limit on engine torque.

28. (original) A motor vehicle comprising:  
an internal combustion engine having a fueling system for fueling the engine;

10/718,190

GAU 3747

one or more sources providing data relevant to operations of the vehicle that are external to the engine but potentially influential on fueling of the engine; and

an engine control system comprising a processor for processing data according to an all-speed governing strategy for controlling the fueling system to develop all-speed governed fueling data that sets engine fueling when a data input to the engine control system from the one or more sources discloses no need to influence engine fueling, but when the data input from such one or more sources discloses a need to influence engine fueling, that data input causes engine fueling to be set by a strategy other than the all-speed governing strategy.

29. (original) A motor vehicle as set forth in Claim 28 wherein the vehicle comprises a transmission that is directly coupled to the engine for propelling the vehicle through a drivetrain ending at driven ones of wheels of the vehicle, and the one or more sources comprise one or more systems that act on at least some of wheels.

30. (original) A motor vehicle as set forth in Claim 29 wherein the one or more sources comprise one or more of: an ABS system; a traction control system; and the transmission.

31. (original) A motor vehicle as set forth in Claim 28 wherein the control system comprises functions for placing the other strategy in an enabled state when the data values for one set of inputs indicate the existence of conditions appropriate for the other strategy to influence engine fueling and for placing the other strategy in an

10/718,190

GAU 3747

unenabled state when the data values for another set of inputs indicate the existence of conditions inappropriate for the other strategy to influence engine fueling.

32. (original) A motor vehicle as set forth in Claim 31 wherein the one set of inputs includes engine speed.

33. (original) A motor vehicle as set forth in Claim 31 wherein the one set of inputs includes engine torque requested from one of the one or more sources and torque requested by the all-speed-governing strategy.

34. (original) A motor vehicle as set forth in Claim 33 wherein the one set of inputs includes engine speed.

35. (original) A motor vehicle as set forth in Claim 31 wherein the other set of inputs includes engine speed and engine low idle speed, engine torque requested from one of the one or more sources, and torque requested by the all-speed governing strategy.

36. (original) A motor vehicle as set forth in Claim 31 wherein the other strategy includes a momentary overspeed control portion that, when the other strategy is enabled, is effective to allow engine speed to exceed high idle speed for a limited time.

37. (original) A motor vehicle as set forth in Claim 36 wherein inputs to the momentary overspeed control portion include engine speed, engine high idle speed, a maximum speed limit, and a maximum time limit.



10/718,190

GAU 3747

38. (original) A motor vehicle as set forth in Claim 28 wherein with the strategy other than the all-speed governing strategy influencing engine fueling, that other strategy functions to detect incipient engine stalling and change engine fueling to avoid actual stalling.

39. (original) A motor vehicle as set forth in Claim 28 wherein the strategy other than the all-speed governing strategy influencing engine fueling comprises a torque speed control strategy influencing engine fueling to influence engine torque.

40. (original) A motor vehicle as set forth in Claim 39 wherein the torque speed control strategy influencing engine fueling to influence engine torque comprises influencing engine fueling to create desired engine torque.

41. (original) A motor vehicle as set forth in Claim 39 wherein the torque speed control strategy influencing engine fueling to influence engine torque comprises influencing engine fueling to impose a limit on engine torque.

42. (original) A motor vehicle as set forth in Claim 28 wherein the data from the one or more sources comprises messages that include data indicative of message priority, and the processor processes the priority data in the messages according to an algorithm that prioritizes the messages.

43. (currently cancelled)

10/718,190

GAU 3747

44. (currently amended) A method as set forth in Claim 43 47 wherein the strategy other than the all-speed governing strategy comprises a torque speed control strategy to set engine fueling for setting engine torque.

45. (original) A method as set forth in Claim 44 wherein the torque speed control strategy comprises setting engine fueling to create desired engine torque.

46. (original) A method as set forth in Claim 44 wherein the torque speed control strategy comprises setting engine fueling to impose a limit on engine torque.

47. (new) A method for governing an internal combustion engine that forms one portion of an apparatus having one or more systems external to the engine and that has an engine control system that includes an accelerator position sensor, the engine having a fueling system that is under control of the engine control system, the method comprising:

governing the engine by processing data in the engine control system, including accelerator position sensor data, according to an all-speed governing strategy to set desired engine fueling free of influence by the one or more systems external to the engine;

governing the engine by processing data, including accelerator position sensor data, according a governing strategy other than the all-speed governing strategy to set desired engine fueling when the one or more systems external to the engine operate in a manner calling for interrupting the all-speed governing strategy.